

2211 W. Meadowview Rd., #101 Greensboro, NC 27409

tel: 336/323-0092 fax: 336/323-0093 www.JoyceEngineering.com

September 21, 2012

Ms. Jaclynne Drummond Compliance Hydrogeologist NC Department of Environment and Natural Resources Division of Waste Management – Solid Waste Section 1646 Mail Service Center Raleigh, North Carolina 27699-1646



RE: Completion of Landfill Gas Monitoring Probe Installations Town of Kernersville Landfill, Permit No. 34-04 Forsyth County, North Carolina

JOYCE Project No. 838.1201.11, Task No. 02

Dear Ms. Drummond:

On behalf of the Town of Kernersville, Joyce Engineering, is submitting the enclosed boring logs for Landfill Gas (LFG) monitoring probes GW-1, GW-2, GW-3, GW-4 and GW-5 installed on August 28, 2012 as requested by the Solid Waste Section. These probes were installed in accordance with the LFG Monitoring Plan. In addition, a LFG Monitoring Network site map has been included to identify the locations of the recently installed probes.

Please feel free to contact me or Larry Hineline at (336) 323-0092 if you have any questions regarding this submittal.

Respectfully,

JOYCE ENGINEERING

Alex Everhart Staff Consultant

Attachments: Boring Logs for GW-1, GW-2, GW-3, GW-4 and GW-5

Drillers Well Construction Logs for GW-1, GW-2, GW-3, GW-4 and GW-5

LFG Monitoring Network Site Map

Copy: Christine Ritter, DENR

Thad Buck - Town of Kernersville

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(Page 1 of 1)

Kernersville closed LF Kernersville NC

Date Started : 8/28/2012 Date Completed : 8/28/2012 Hole Diameter : 4 inch

: Geologic Exploration, Inc. Drilling Company Northing Coord. : 36, 11' 35.61" Westing Coord. : 80, 02' 16.22"

JOY	OYCE Project No.838.1201.11 Task 02 Drilling Method : Sampling Method :		: Hollow	Stem Augers	Survey By Logged By	: : R. Winfield				
Depth in Feet	Surf. Elev.	Blow Count	% Rec	nscs		RIPTION	тос	l: GW-1 C Elev.:		Construction formation
10— 15— 20—					reddish brown cla	ayey sand ge clayey sand		Grout (0'-2') Riser Pipe (-3'-5') Bentonite Sea (2'-4') Sand Pack (4'-32') Screen (5'-32')	Date Compl. Hole Diameter(s) Drilling Method(s) Company Rep. Drilling Method(s)	: 8/28/2012 : 4-inch : HS Auger : Schedule 40 PVC : 1-inch : Threaded, flush kup : 3-feet : Schedule 40 PVC : 1-inch : Threaded, flush : 0.010 inch : # 2 Sand SEAL : Bentonite : Grout
30-					damp					
35—					TD					





(Page 1 of 1)

	Ke	rners Kern	ville (ersvi	close Ile N		Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 8/28/2012 : 8/28/2012 : 4 inch : Hollow Stem A	ugers	No W Su	orthing Coord. esting Coord. urvey By	Geologic Exploration, Inc. 36, 11' 36.22" 80, 02' 19.36" R. Winfield
Depth in Feet	Surf. Elev.	Blow Count	% Rec.	nscs	DESC	RIPTION	Well: GW-:				onstruction rmation
10-				7	grey black clayey light brown grey co	sand layey sand		and Pack '-20') and Pack '-20') creen '-20')		WELL CONSTRUCT Date Compl. Hole Diameter(s) Drilling Method(s) Company Rep. Drilling Method(s) Company Rep. WELL CASING Material Diameter Joints Approx. Csg. Stickup WELL SCREEN Material Diameter Joints Opening GRAVEL PACK Type WELL SCREEN SEA Type ANNULUS SEAL Type PROTECTIVE CSG. Type WELL PAD Type	Schedule 40 PVC: 1-inch: Schedule 40 PVC: 1-inch: Threaded, flush: Schedule 40 PVC: 1-inch: Threaded, flush: Threaded, flush: 1-inch: Threaded, flush: 1-inch: Threaded, flush: 0.010 inch: # 2 Sand
35											





(Page 1 of 1)

Kernersville closed LF

Date Started : 8/28/2012

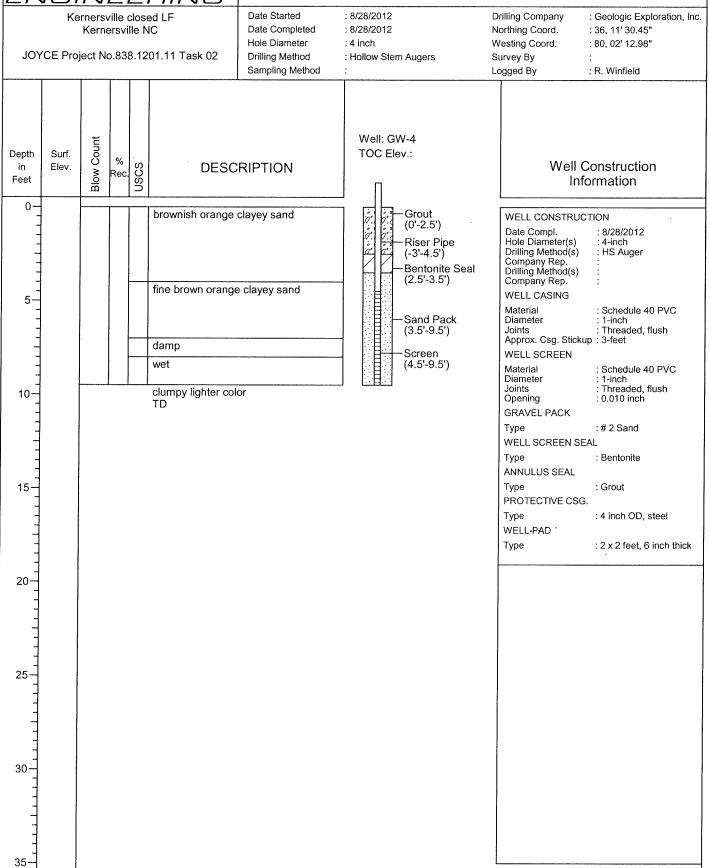
Drilling Company : Geologic Exploration, Inc.

JOY	Hole Diameter :				: 8/28/2012 : 4 inch : Hollow Stem Augers	No We Su	orthing Coord. : esting Coord. : rvey By :	36, 11' 36.46" 80, 02' 25.48' R. Winfield		
Depth in Feet	Surf. Elev.	Blow Count	% Rec.	nscs	DESC	RIPTION	Well: GW-3 TOC Elev.:			onstruction rmation
5-					Brown clayey san		Grout (0'-2') C'. Riser Pipe (-3'-5') Bentonite Seal (2'-4') Sand Pack (4'-11')	and the second s	WELL CONSTRUCT Date Compl. Hole Diameter(s) Drilling Method(s) Company Rep. Drilling Method(s) Company Rep. WELL CASING Material Diameter Joints Approx. Csg. Stickup	: 8/28/2012 : 4-inch : HS Auger : : : : Schedule 40 PVC : 1-inch : Threaded, flush
10-	and the same of th				dark brown clayey damp w/ rock frag brown/grey clay, r wet TD	ments	Screen (5'-11')		Material Diameter Joints Opening GRAVEL PACK Type WELL SCREEN SEA Type	: Schedule 40 PVC : 1-inch : Threaded, flush : 0.010 inch : # 2 Sand
15									ANNULUS SEAL Type PROTECTIVE CSG. Type WELL PAD Type	: Grout : 4 inch OD, steel : 2 x 2 feet, 6 inch thick
20-								THE PROPERTY.		
25-								i Pitti an mak		
30-	THE PARTY OF THE P									
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Kernersville closed LF Kernersville NC

35-

Date Started : 8/28/2012
Date Completed : 8/28/2012
Hole Diameter : 4 inch

Drilling Company Northing Coord. Westing Coord.

: 36, 11' 33.55" : 80, 02' 25.92" :

: Geologic Exploration, Inc.

JOY	CE Proj	ject N	0.83	8.12	01.11 Task 02	Hole Diameter Drilling Method Sampling Method	: 4 inch : Hollow Stem Augers :	Westing Coord. Survey By Logged By	: 80, 02' 25.92" : : R. Winfield
Depth in Feet	Surf. Elev.	Blow Count	%-Rec	nscs	DESC	CRIPTION	Well: GW-5 TOC Elev.: Grout (0'-2') Riser Pipe	WELL CONSTRU	: 8/28/2012
5					Grey blackish brown clayey san		Riser Pipe (-3'-4') Bentonite Seal (2'-3') Sand Pack (3'-9') Screen (4'-9')	Hole Diameter(s) Drilling Method(s) Company Rep. Drilling Method(s) Company Rep. WELL CASING Material Diameter Joints Approx. Csg. Stic	: 4-inch : HS Auger : : : : : : : : : : : : : : : : : : :
10 —					TD			Material Diameter Joints Opening GRAVEL PACK Type WELL SCREEN \$ Type ANNULUS SEAL	: 1-inch : Threaded, flush : 0.010 inch
15								Type PROTECTIVE CS Type WELL PAD Type	: Grout GG. : 4 inch OD, steel : 2 x 2 feet, 6 inch thick
20									
25									
30-									





North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2579

and the state of t	
1. WELL CONTRACTOR:	d. TOP OF CASING IS 2.5 FT. Above Land Surface*
DANNY SUMMERS	*Top of casing terminated at/or below land surface may require
Well Contractor (Individual) Name GEOLOGIC EXPLORATION, INC	a variance in accordance with 15A NCAC 2C .0118.
Well Contractor Company Name	e. YIELD (gpm): N/A METHOD OF TEST N/A
176 COMMERCE BLVD	f. DISINFECTION: Type N/A Amount N/A
Street Address	g. WATER ZONES (depth):
STATESVILLE NC 28625	TopBottomBottom
City or Town State Zip Code	TopBottomBottom
(704) 872-7686	TopBottomTopBottom
Area code Phone number	Thickness/
2. WELL INFORMATION:	7. CASING: Depth Diameter Weight Material
WELL CONSTRUCTION PERMIT#	Top 0.0 Bottom 5.0 Ft. 1 INCH SCH 40 PVC
OTHER ASSOCIATED PERMIT#(if applicable)	TopBottomFt
SITE WELL ID #(if applicable) GW-1	TopBottomFt
3. WELL USE (Check One Box) Monitoring Municipal/Public	. 8. GROUT: Depth Material Method
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. PORTLAND BENTONITE SLURRY
Irrigation ☐ Other ☑ (list use) _ GAS PROBE	. TopBottomFt
DATE DRILLED 08/28/12	: TopBottomFt
4. WELL LOCATION:	
	9. SCREEN: Depth Diameter Slot Size Material
9900 FREEMAN ROAD 27284 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	Top 5.0 Bottom 32.0 Ft. 1.0 in010 in. PVC
	Bottom Ftin in in.
CITY: KERNERSVILLE COUNTY FORSYTH	Top Bottom Ftin in
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	: : 10. SAND/GRAVEL PACK:
□Slope □Valley □Flat □Ridge □Other	: Depth Size Material
LATITUDE 36 • 11 • 35.6100 " DMS OR DD	Top 4.0 Bottom 32.0 Ft. 20-40 FINE SILICA SAND
LONGITUDE 80 ° 2 ' 16.2200 " DMS OR DD	TopBottomFt
Latitude/longitude source: ☑GPS ☐Topographic map	TopBottomFt
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)	
5. FACILITY (Name of the business where the well is located.)	: 11. DRILLING LOG : Top Bottom Formation Description
KERNERSVILLE LANDFILL N/A	: 0.0 / 20.0 BROWN CLAYEY SILT
Facility Name Facility ID# (if applicable)	20.0 / 32.0 TAN SILT
9900 FREEMAN ROAD Street Address	
KERNERSVILLE NC 27284	:
City or Town State Zip Code	: /
TOWN OF KERNERSVILLE	: /
Contact Name	
PO BOX 728	
Mailing Address	
KERNERSVILLE NC 27285 City or Town State 7in Code	
City or Town State Zip Code	12. REMARKS:
	BENTONITE SEAL FROM 2.0 TO 4.0 FEET
rea code Phone number	:
WELL DETAILS:	: I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH - 15A YOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS - REPORT HAS BEEN PHO YIDED TO THE WILL OWNER.
a. TOTAL DEPTH: 32.0 FEET	
b. DOES WELL REPLACE EXISTING WELL? YES NO I	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing: 30.0 FT. (Use "+" if Above Top of Casing)	: DANNY SUMMERS : PRINTED NAME OF PERSON CONSTRUCTING THE WELL
	•

7	;
WELL USE (Check One Box) Monitoring ☐ Municipal/Public ☐	8. GROUT: Depth Material Meth
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. PORTLAND BENTONITE SLURRY
Irrigation Other (list use) GAS PROBE	: Top Bottom Ft
DATE DRILLED 08/28/12	TopBottomFt
WELL LOCATION:	: 9. SCREEN: Depth Diameter Slot Size Materi
000 FREEMAN ROAD 27284	Top 5.0 Bottom 32.0 Ft. 1.0 in010 in. PVC
eet Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	Top Bottom Ftin in
ry: KERNERSVILLE COUNTY FORSYTH	TopBottomFtinin.
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	
]Slope	10. SAND/GRAVEL PACK:
ATITUDE 36 • 11 • 35.6100 " DMS OR DD	Depth Size Material
ONGITUDE 80 ° 2 ' 16.2200 " DMS OR DD	Top 4.0 Bottom 32.0 Ft. 20-40 FINE SILICA SAN
titiude/longitude source: GPS Topographic map	TopBottomFt
ocation of well must be shown on a USGS topo map andattached to	TopBottomFt
is form if not using GPS)	: : 11. DRILLING LOG
ACILITY (Name of the business where the well is located.)	Top Bottom Formation Description
CERNERSVILLE LANDFILL N/A	: 0.0 / 20.0 BROWN CLAYEY SILT
cility Name Facility ID# (if applicable)	:
00 FREEMAN ROAD	:
reet Address	
YOR TOWN State 7 in Code	
,	
WN OF KERNERSVILLE ntact Name	
BOX 728	:
iling Address	
ERNERSVILLE NC 27285	
y or Town State Zip Code	12. REMARKS:
)	BENTONITE SEAL FROM 2.0 TO 4.0 FEET
code Phone number	
ELL DETAILS:	I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WELL SON STRUCTION STANDARDS, AND THAT A COPY OF THIS REPORT HAS BEEN PROVIDED TO THE WALL OWNER.
TOTAL DEPTH: 32.0 FEET	
DOES WELL REPLACE EXISTING WELL? YES □ NO □	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
WATER LEVEL Below Top of Casing:ST.	: DANNY SUMMERS
(Use "+" if Above Top of Casing)	PRINTED NAME OF PERSON CONSTRUCTING THE WELL
nit within 30 days of completion to: Division of Water	Quality - Information Processing.
Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 8	Rev. 2/09

a. TOTAL DEPTH: 32.0 FEET	REPORT HAS BEEN PROVIDED TO THE WELL OWNER.
b. DOES WELL REPLACE EXISTING WELL? YES NO IN	SIGNATURE OF CERTIFIED WELL CONTRA
c. WATER LEVEL Below Top of Casing: 30.0 FT. (Use "+" if Above Top of Casing)	DANNY SUMMERS PRINTED NAME OF PERSON CONSTRUCTION
Submit within 30 days of completion to: Division of Wate 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919	er Quality - Information Processing,) 807-6300



North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2579

1. WELL CONTRACTOR:	d. TOP OF CASING IS 2.5 FT. Above Land Surface*
DANNY SUMMERS	*Top of casing terminated at/or below land surface may require
Well Contractor (Individual) Name GEOLOGIC EXPLORATION, INC	a variance in accordance with 15A NCAC 2C .0118.
Well Contractor Company Name	e. YIELD (gpm): N/A METHOD OF TEST N/A
176 COMMERCE BLVD	f. DISINFECTION: Type N/A Amount N/A
Street Address STATESVILLE NC 28625	g. WATER ZONES (depth):
STATESVILLE NC 28625 City or Town State Zip Code	TopBottomTopBottom
	TopBottomTopBottom
(704) 872-7686 Area code Phone number	TopBottomBottom
2. WELL INFORMATION:	: Thickness/ : 7. CASING: Depth Diameter Weight Material
WELL CONSTRUCTION PERMIT#	Top 0.0 Bottom 5.0 Ft. 1 INCH SCH 40 PVC
	Top Bottom Ft.
OTHER ASSOCIATED PERMIT#(if applicable) SITE WELL ID #(if applicable) GW-2	Top Bottom Ft.
SITE WELL ID #(if applicable) GW-2	
3. WELL USE (Check One Box) Monitoring ☐ Municipal/Public ☐	8. GROUT: Depth Material Method
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. PORTLAND BENTONITE SLURRY
Irrigation ☐ Other ☑ (list use)GAS PROBE	TopBottomFt
DATE DRILLED 08/28/12	TopBottomFt
4. WELL LOCATION:	: 9. SCREEN: Depth Diameter Slot Size Material
9900 FREEMAN ROAD 27284	Top_ 5.0 Bottom 20.0 Ft. 1.0 in010 inPVC
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	: Top Bottom Ft in in
CITY: KERNERSVILLE COUNTY FORSYTH	TopBottomFtinin.
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	
□Slope □Valley ☑Flat □Ridge □Other	10. SAND/GRAVEL PACK: Depth Size Material
LATITUDE 36 • 11 • 36.2200 " DMS OR DD	Top 4.0 Bottom 20.0 Ft. 20-40 FINE SILICA SAND
LONGITUDE 80 ° 2 ' 19.3600 " DMS OR DD	Top Bottom Ft.
Latitude/longitude source: GPS	TopBottomFt
this form if not using GPS)5. FACILITY (Name of the business where the well is located.)	: 11. DRILLING LOG : Top Bottom Formation Description
KERNERSVILLE LANDFILL N/A	BROWN CLAYEY SILT
Facility Name Facility ID# (if applicable) 9900 FREEMAN ROAD	
Street Address	:/
KERNERSVILLE NC 27284	:/
City or Town State Zip Code	
TOWN OF KERNERSVILLE	:
Contact Name	<u> </u>
PO BOX 728 Mailing Address	:
KERNERSVILLE NC 27285	<u> </u>
City or Town State Zip Code	12. REMARKS:
()	: BENTONITE SEAL FROM 2.0 TO 4.0 FEET
Area code Phone number	
6. WELL DETAILS:	I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE VELL OWNER.
a. TOTAL DEPTH: 20.0 FEET	FECORD HAS BEEN PROVIDED TO THE WELL OWNER.
b. DOES WELL REPLACE EXISTING WELL? YES NO	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
i. Dono Hilliam Diol Diol Holly	, and the or out the family dollars of the out of the o
c. WATER LEVEL Below Top of Casing: 18.0 FT. (Use "+" if Above Top of Casing)	DANNY SUMMERS PRINTED NAME OF PERSON CONSTRUCTING THE WELL



Non Residential well construction record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2579

1. WELL CONTRACTOR: DANNY SUMMERS	d. TOP OF CASING IS 2.5 FT. Above Land Surface* *Top of casing terminated at/or below land surface may require
Well Contractor (Individual) Name GEOLOGIC EXPLORATION, INC	a variance in accordance with 15A NCAC 2C .0118.
Well Contractor Company Name	e. YIELD (gpm): N/A METHOD OF TEST N/A
176 COMMERCE BLVD	f. DISINFECTION: Type N/A Amount N/A
Street Address	g. WATER ZONES (depth):
STATESVILLE NC 28625	TopBottomTopBottom
City or Town State Zip Code	TopBottomTopBottom
(704) 872-7686	: Top Bottom Top Bottom
Area code Phone number	Thickness/
2. WELL INFORMATION:	7. CASING: Depth Diameter Weight Material
WELL CONSTRUCTION PERMIT#	Top 0.0 Bottom 5.0 Ft. 1 INCH SCH 40 PVC
OTHER ASSOCIATED PERMIT#(if applicable)	Bottom Ft
SITE WELL ID #(if applicable) GW-3	TopBottomFt
3. WELL USE (Check One Box) Monitoring ☐ Municipal/Public ☐	8. GROUT: Depth Material Method
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. PORTLAND BENTONITE SLURRY
Irrigation Other (list use) GAS PROBE	TopBottomFt
DATE DRILLED 08/28/12	TopBottomFt
4. WELL LOCATION:	9. SCREEN: Depth Diameter Slot Size Material
9900 FREEMAN ROAD 27284	Top 5.0 Bottom 11.0 Ft. 1.0 in010 in. PVC
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	: Top Bottom Ft in in
CITY: KERNERSVILLE COUNTY FORSYTH	Top Bottom Ftin inin.
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	105
□ Slope □ Valley ☑ Flat □ Ridge □ Other	10. SAND/GRAVEL PACK:
LATITUDE 36 • 11 • 36.4600 " DMS OR DD	Depth Size Material
LONGITUDE 80 ° 2 ' 25.4800 " DMS OR DD	Top 4.0 Bottom 11.0 Ft. 20-40 FINE SILICA SAND
Latitude/longitude source: 🌠 GPS Topographic map	TopBottomFt
(location of well must be shown on a USGS topo map andattached to	TopBottomFt
this form if not using GPS)	· 11. DRILLING LOG
5. FACILITY (Name of the business where the well is located.)	: Top Bottom Formation Description
KERNERSVILLE LANDFILL N/A	: 0.0 / 11.0 BROWN/TAN SILTY CLAY
Facility Name Facility ID# (if applicable)	: /
9900 FREEMAN ROAD	:
Street Address	:
KERNERSVILLE NC 27284	
City or Town State Zip Code	:
TOWN OF KERNERSVILLE	
Contact Name PO BOX 728	:
Mailing Address	
KERNERSVILLE NC 27285	: /
City or Town State Zip Code	· 12. REMARKS:
·	: BENTONITE SEAL FROM 2.0 TO 4.0 FEET
Area code Phone number	
S. WELL DETAILS:	I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 154 NEAC 2C, WELL COISTRUCTION STANDARDS, AND THAT A COPY OF THIS
a. TOTAL DEPTH: 11.0 FEET	15 A NGAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
	09/05/12
b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☐	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing: 8.0 FT.	: DANNY SUMMERS
(Use "+" if Above Top of Casing)	PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Form GW-1b Rev. 2/09

6. WELL DETAILS:	 I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCT 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND TO THE PROPERTY OF TH
a. TOTAL DEPTH: 11.0 FEET	R CORD HAS BEEN PROVIDED TO THE WELL OWNER.
b. DOES WELL REPLACE EXISTING WELL? YES \(\text{NO} \) NO \(\text{NO} \)	SIGNATURE OF CERTIFIED WELL CONTRACT
c. WATER LEVEL Below Top of Casing: 8.0 FT. (Use "+" if Above Top of Casing)	DANNY SUMMERS PRINTED NAME OF PERSON CONSTRUCTION
Submit within 30 days of completion to: Division of Water 617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 8	



NonResidential well construction record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2579

1. WELL CONTRACTOR:	d. TOP OF CASING IS 2.5 FT. Above Land Surface*
DANNY SUMMERS	 *Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
Well Contractor (Individual) Name GEOLOGIC EXPLORATION, INC	:
Well Contractor Company Name	e. YIELD (gpm): N/A METHOD OF TEST N/A
176 COMMERCE BLVD	f. DISINFECTION: Type N/A Amount N/A
Street Address	g. WATER ZONES (depth):
STATESVILLE NC 28625	TopBottomTopBottom
City or Town State Zip Code	TopBottomTopBottom
(704) 872-7686	TopBottomBottom
Area code Phone number	Thickness/
2. WELL INFORMATION:	7. CASING: Depth Diameter Weight Materia
WELL CONSTRUCTION PERMIT#	Top 0.0 Bottom 4.5 Ft. 1 INCH SCH 40 PVC
OTHER ASSOCIATED PERMIT#(if applicable)	TopBottomFt
SITE WELL ID #(if applicable) GW-4	TopBottomFt
3. WELL USE (Check One Box) Monitoring ☐ Municipal/Public ☐	8. GROUT: Depth Material Method
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.5 Ft. PORTLAND BENTONITE SLURRY
Irrigation ☐ Other W (list use) GAS PROBE	. Top Bottom Ft
DATE DRILLED 08/28/12	: : Top Bottom Ft
4. WELL LOCATION:	: : : 9. SCREEN: Depth Diameter Slot Size Material
9900 FREEMAN ROAD 27284	•
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	Top 4.5 Bottom 9.5 Ft. 1.0 in010 in. PVC
CITY: KERNERSVILLE COUNTY FORSYTH	TopBottomFtininin.
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	TopBottomFtininin.
Slope □Valley Flat □ Ridge □Other	10. SAND/GRAVEL PACK:
LATITUDE 36 • 11 • 30.4500 " DMS OR DD	Depth Size Material
	Top 3.5 Bottom 9.5 Ft. 20-40 FINE SILICA SAND
LONGITUDE 80 ° 2 ' 12.9800 " DMS OR DD	: TopBottomFt
Latitude/longitude source: GPS	TopBottomFt
5. FACILITY (Name of the business where the well is located.)	11. DRILLING LOG
. Protect (Marie of the business where the well is located.)	: Top Bottom Formation Description :
KERNERSVILLE LANDFILL N/A	: 0.0 / 9.5 BROWN CLAYEY SILT
Facility Name Facility ID# (if applicable)	
9900 FREEMAN ROAD Street Address	
KERNERSVILLE NC 27284	
City or Town State Zip Code	: /
TOWN OF KERNERSVILLE	: /
Contact Name	
PO BOX 728	
Mailing Address	:
KERNERSVILLE NC 27285 City or Town State Zip Code	
City or Town State Zip Code	12. REMARKS:
	BENTONITE SEAL FROM 2.5 TO 3.5 FEET
Area code Phone number	LDO HEDERY CERTIFY THAT THE WELL WAS CONSTRUCTED IN ACCORDANCE WITH
. WELL DETAILS:	: I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH : 15 NIVAC 2C, WELL OD ISTRUCTION STAYDARDS, AND THAT A COPY OF THIS : RICOAD HAS BEEN PROVIDED TO THE WELL OWNER.
a. TOTAL DEPTH: 9.5 FEET	
b. DOES WELL REPLACE EXISTING WELL? YES NO	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing: 7.0 FT. (Use "+" if Above Top of Casing)	DANNY SUMMERS PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Form GW-1b Rev. 2/09



North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2579

1. WELL CONTRACTOR: DANNY SUMMERS	d. TOP OF CASING IS 2.5 FT. Above Land Surface* *Top of casing terminated at/or below land surface may require
Well Contractor (Individual) Name GEOLOGIC EXPLORATION, INC	a variance in accordance with 15A NCAC 2C .0118. e. YIELD (gpm): N/A METHOD OF TEST N/A
Well Contractor Company Name	f. DISINFECTION: Type N/A Amount N/A
176 COMMERCE BLVD Street Address	
	g. WATER ZONES (depth):
STATESVILLE NC 28625 City or Town State Zip Code	TopBottomTopBottom
,	TopBottomTopBottom
(704) 872-7686	TopBottomBottom
Area code Phone number	: Thickness/
2. WELL INFORMATION:	7. CASING: Depth Diameter Weight Materia
WELL CONSTRUCTION PERMIT#	Top 0.0 Bottom 4.0 Ft. 1 INCH SCH 40 PVC
OTHER ASSOCIATED PERMIT#(if applicable)	TopBottomFt
SITE WELL ID #(if applicable) GW-5	Ft
3. WELL USE (Check One Box) Monitoring Municipal/Public	: 8. GROUT: Depth Material Method
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. PORTLAND BENTONITE SLURRY
Irrigation□ Other (list use) GAS PROBE	: Top Bottom Ft
DATE DRILLED 08/28/12	: Top Bottom Ft.
4. WELL LOCATION:	9. SCREEN: Depth Diameter Slot Size Material
9900 FREEMAN ROAD 27284	
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	Top 4.0 Bottom 9.0 Ft. 1.0 in010 in. PVC
CITY: KERNERSVILLE COUNTY FORSYTH	: TopBottomFtininininin.
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	
□Slope □Valley ☑Flat □Ridge □Other	10. SAND/GRAVEL PACK:
LATITUDE 36 • 11 • 33.5500 " DMS OR DD	Depth Size Material
LONGITUDE 80 ° 2 ' 25.9200 " DMS OR DD	Top 3.0 Bottom 9.0 Ft. 20-40 FINE SILICA SAND
Latitude/longitude source: VGPS	TopBottomFt
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)	TopBottomFt
5. FACILITY (Name of the business where the well is located.)	: 11. DRILLING LOG : Top Bottom Formation Description
won to tooked.	
KERNERSVILLE LANDFILL N/A	BROWN CLAYEY SILT
Facility Name Facility ID# (if applicable)	
9900 FREEMAN ROAD	
Street Address KERNERSVILLE NC 27284	
KERNERSVILLE NC 27284 City or Town State Zip Code	:
TOWN OF KERNERSVILLE Contact Name	:
PO BOX 728	:
Mailing Address	·
KERNERSVILLE NC 27285	
City or Town State Zip Code	AO DEMADICO.
1	: 12. REMARKS: :_BENTONITE SEAL FROM 2.0 TO 3.0 FEET
Area code Phone number	BENTONITE SEAL TROWIZ.0 TO 5.01 ELT
S. WELL DETAILS:	I DOTHEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH
a. TOTAL DEPTH: 9.0 FEET	I DO NEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 154 NOAC 2C, WELL CONSTRUCTION STAYDARDS, AND THAT A COPY OF THIS RICORD HAS BEEN PROVIDED TO THE WELL OWNER.
b. DOES WELL REPLACE EXISTING WELL? YES NO IN	99/05/12 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing: 7.0 FT.	
c. WATER LEVEL Below Top of Casing:FT. (Use "+" if Above Top of Casing)	DANNY SUMMERS PRINTED NAME OF PERSON CONSTRUCTING THE WELL

SITE VVELL ID #(if applicable)	· ropbottomrt
3. WELL USE (Check One Box) Monitoring Municipal/Public	8. GROUT: Depth Material Meth
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. PORTLAND BENTONITE SLURRY
Irrigation ☐ Other (list use) GAS PROBE	: TopBottom Ft
DATE DRILLED 08/28/12	Top Bottom Ft.
	DOUGHT 1 C.
I. WELL LOCATION:	9. SCREEN: Depth Diameter Slot Size Materi
9900 FREEMAN ROAD 27284	Top 4.0 Bottom 9.0 Ft. 1.0 in010 in. PVC
Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	. TopBottom Ftin in
CITY: KERNERSVILLE COUNTY FORSYTH	Top Bottom Ftin in
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	:
□Slope □Valley ☑ Flat □Ridge □Other	10. SAND/GRAVEL PACK:
LATITUDE 36 • 11 • 33.5500 " DMS OR DD	Depth Size Material
	Top 3.0 Bottom 9.0 Ft. 20-40 FINE SILICA SAN
	TopBottomFt
Latitude/longitude source: GPS Topographic map (location of well must be shown on a USGS topo map andattached to this form if not using GPS)	TopBottomFt
FACILITY (Name of the business where the well is located.)	11. DRILLING LOG
The state of the business where the well is located.)	Top Bottom Formation Description
KERNERSVILLE LANDFILL N/A	0.0 / 9.0 BROWN CLAYEY SILT
Facility Name Facility ID# (if applicable)	:/
9900 FREEMAN ROAD	
Street Address	
KERNERSVILLE NC 27284	
City or Town State Zip Code	
OWN OF KERNERSVILLE	
Contact Name	
PO BOX 728 Mailing Address	·
ŭ	
KERNERSVILLE NC 27285 City or Town State Zip Code	
Otate Zip code	12. REMARKS:
	BENTONITE SEAL FROM 2.0 TO 3.0 FEET
ea_code Phone number	
WELL DETAILS:	I DOMEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WELL ON STRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
a. TOTAL DEPTH: 9.0 FEET	RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
b. DOES WELL REPLACE EXISTING WELL? YES NO I	09/05/12
	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing: 7.0 FT.	: DANNY SUMMERS
(Use "+" if Above Top of Casing)	PRINTED NAME OF PERSON CONSTRUCTING THE WELL
	:
	Form GW
omit within 30 days of completion to: Division of Water	Quality - Information Processing Day 2/00
7 Mail Service Center, Raleigh, NC 27699-161, Phone : (919)	807-6300
A STATE OF THE STA	random operative of the transfer of the first of the state of the stat

